OFFICIAL RESPONSES TO VENDOR QUESTIONS
Data Analytics Platform for Opioid Crisis

No.	Question	Answer
1.	**Section 1, Introduction, Sub-section 1.1**: Within the Department, which area is the main customer/releasing the RFP?	The Department of Health and Human Services, Department of Public Health Services, Bureau of Infectious Disease is releasing this RFP.
2.	**Section 1, Introduction, Sub-section 1.1, Paragraph 1.1.18 AND Section 1, Introduction, Sub-section 1.1, Paragraph 1.1.26:** Will the system benefit from a capability to interact with Geo-Analytic (GIS) layers on a map?	Yes.
3.	**Section 1, Introduction, Sub-section 1.2 Project Overview**: a) Can you expand the business and analytical requirements for the environment? b) What is the inventory of software? c) What is the Department's overarching strategy of an opioid module compared to an opioid platform? d) What investments have been made to date to infrastructure? e) How many systems does the Department maintain or have access to; in regards to this effort?	a) Vendors should define how they will leverage the current infrastructure. Additionally, they should describe any additional software and/or hardware required to effectively clean the data and successfully link disparate data sources in order to create an enterprise data analytics environment. The resulting environment must allow data visualizations to be dynamically updated in both the external de-identified system and internal multi-tenant solution, allowing for client information to be rendered for use by the Department. b) 15 Tableau Creator Licenses (most current version) 8 core Tableau Server license 15 user Tableau eLearning for Creator 4 core Informatica Data Quality SE Development & Production 4 core PowerCenter AE Development & Production

No.	Question	Answer
		8 core Oracle Database Enterprise Edition w/Diagnostics and Tuning Packs IBM Cognos BI (version 10.2.1) is also currently used to report health-related data in NH Health WISDOM. Cognos license and support will end in March, 2020. c) The goal is to have a Data Analytics Platform (DAP) in which various dashboards may be contained to include the Opioid dashboard deliverable of this RFP. This dashboard will meet or exceed the current requirements set forth in this RFP. The Opioid dashboard deliverable utilizing the first 8 data sources will need to be designed to allow for scaling out to consume additional data sources and indicators to allow for a continuous evolution of the dynamic dashboard environment. d) 2 Database Servers: HPE BL460c Blades, 512GB, 3.2GHZ 8 cores 2 App Servers: 10 core HPE BL460c Blades, 512GB. 2.4GHZ, 10 cores Red Hat Enterprise Server Linux and Linux for Virtual Datacenters 8 core VPP L4 VMware vSphere 6 with Operations Management Enterprise Pl e) Currently the Department has direct access to the following systems for Phase 1: • Medicaid and Commercial Claims, • Child Welfare Cases, • Drug and Alcohol System treatment data and naloxone distribution, • Vital Records, • Hospital ED Surveillance and Population Data systems,

No.	Question	Answer
		and • more limited access to Medical Examiner and Emergency Medical Services data systems.
4.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.12 AND Section 1, Introduction, Sub-section 1.3 Contract Term, Paragraph 1.3.2**: a) The RFP states a plan to execute a Not to Exceed (NTE) of $2,278,642. Is this amount for the base year starting from the Effective Date to August 31,2019 or is this for the base plus four option years through August 31, 2023? b) Does the Department expect the NTE to cover a Data Analytics Platform (DAP)?	a) A contract which results from this RFP will include a price limitation Not to Exceed $2,278,642 and a Completion Date of August 31, 2019. b) The NTE is goaled at covering all of the requirements listed in the RFP to include at a high level the design, proposal, implementation and training associated with a Data Management & Governance plan, Agile Project Management strategy and toolset to move the project to completion, Training for system administrators, analysts, database administrators, and end users on the appropriate tools sets, creation of the Opioid dashboard leveraging the identified 8 data sources with the ability to scale to many additional data sources as well as the process and training to migrate the existing Cognos reports based external data analytics platform over to the proposed solution. To the extent possible, the contractor will leverage existing hardware and software.
5.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.2:** What metrics and/or outcomes will be used to demonstrate that the DAP improves the care and well-being of individuals and families?	Many metrics will be discovered through the integration of data into a centralized business intelligence and data analytics platform. Some of the expected outcomes will be a better understanding of where services may be needed, which services are utilized more, graphical and information based model showing paths to addiction. Generally the Department intends to use the dashboard to aid in identifying hot-spot communities/demographic groups/causes, gaps in services, and impacts of financial investments made in certain services for individuals with OUD/SUD. This will help to direct resources and program design to areas that will improve

No.	Question	Answer
		individuals access to care and ideally reduce opioid overdose fatalities. Another outcome will be used in the DAP is to enhance data visualization and interactivity functions to present opioid-related health statistic data. The DAP will provide more comprehensive understandings regarding mobility and mortality rates. In addition to the multiple quality metrics collected by the Department that are identified in the CMS Adult Core Set, which includes the "use of opioids" at high levels in persons without cancer" and the concurrent use of opioids and benzodiazepines. The Department has also identified a number of other quality metrics for Substance Use Disorders (SUD) treatment services including, initiation (access), engagement and retention in services, clinically appropriate services and treatment completion. Likewise the Department has identified number outcome metrics for SUD treatment services including those identified in the National Outcome Measures (NOMS) made available by the Federal Substance Abuse Mental Health Services Administration (SAMHSA). The Department requires the ability to conduct multivariate analysis of these and a variety of other healthcare and socioeconomic data to improve service quality and outcomes. Including the ability to compare PHI with published non - PHI data. This information will be utilized to identify and resolve quality issues at the service type, program or systems level and to address any service quality issues experienced by clients across the system or by particular demographic groups and or in certain geographical areas.
6.	**Section 1, Introduction, Sub-section 1.2**	Some of the desired types of change is a more integrated view of

No.	Question	Answer
	Project Overview, Paragraph 1.2.3: What is the desired type of change resulting from the DAP?	the data associated with the Opioid crisis across different data sources as well as the implementation of a data management and governance strategy coupled with a project management, training and sustainability plan to continue the efforts forward. For the New Hampshire Department of Health and Human Services to establish extraordinary internal and external facing data analytics capacity to: • Better understand the variety of interconnected health and social issues impacting clients served across different (and sometimes multiple) program areas. • Utilizing data to improve service quality and design, including better integration and coordination of services • Monitor and improve performance, efficiency and effectiveness of programs
7.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.4 AND Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.6, Sub-paragraph 1.2.6.3**: Has the Department decided to use Oracle, Informatica and Tableau for this solution?	The Department has decided to utilize existing investments in Oracle, Informatica and Tableau in the data analytics platform. Additional software and hardware as applicable should be detailed out in the response and shall indicate how the solution will integrate with existing technology.
8.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.4**: a) Is capacity, licensing available? b) Is the vendor expected to help with or participate in the implementation of the Enterprise Business Intelligence	a) See Answer # 3. Additionally 3 more Tableau Creator licenses and training will be purchased by DPHS in the coming months for a total of 18 Creator Licenses. b) The expectation is that the selected vendor will identify and leverage the existing Enterprise Intelligence Platform where

No.	Question	Answer
	Platform? c) How does the state expect the DAP will interact or integrate with the Enterprise Business Intelligence (EBI) platform? d) Please clarify the current hosting environment of the Enterprise Business Intelligence platform that is being implemented in partnership with the Department of Information Technology. Is this hosted in a State data center or by a third-party Vendor? e) When will the Enterprise Business Intelligence (EBI) be available? f) Will the EBI include all of the data sources referenced in this RFP and those data elements housed in Oracle? g) Can the successful bidder build their solution using the data sources contained in the EBI? h) How many data sources compose the data warehouse? i) How frequently are data sources refreshed? j) What volume of data does the Department anticipate will be processed through the DAP? k) What interfaces are in place to send and receive data? (SFTP, WebAPI, etc) l) In what format(s) does raw data typically arrive into the data warehouse	applicable to their solution. The goal is not to limit the potential options by the current technology in place within the organization; however in order to maximize the investment that the State of New Hampshire has made on the platform it is recommended that the solution identify how the existing platform will be utilized to meet the deliverables of the RFP. Currently the platform is an on premise solution in the state data center administered by Department of Information Technology staff and Department staff. The preference will be for the proposed solution to enhance the existing environment that the State has to successfully meet the deliverables of the RFP. c) The DAP is a part of the Enterprise Business Intelligence (EBI) platform. The two platforms leverage the same toolsets and provide a dynamic dashboard based environment from which reports, analysis and decision making can be obtained. d) Currently the platform is an on premise solution in the state data center administered by Department of Information Technology staff and DHHS staff. The preference will be for the proposed solution to enhance the existing environment that the State has to successfully meet the deliverables of the RFP, although additional enhancements need not be on premise if the solution is best implemented another way. e) The EBI which entails the hardware and associated software described in the inventory in question 2.b. will be available at the end of December 2018. f) The RFP deliverable of the Opioid dashboard will need to include the professional services required to bring in or model the 8 data sources referenced in this RFP into the EBI platform for use with the Data Analytics Environment. The

No.	Question	Answer
	prior to processing? (CSV, XML, JSON, etc.)	current EBI platform is in development, but it will contain Medicaid claims data in a modeled form, and source system copies of additional data sets which will need to be modeled as part of the new effort. As explained in question 1 this RFP is to provide the professional services to design and implement a solution with associated training to bring multiple data disparate data sources together into a data warehouse environment to be leveraged by existing software and hardware and augmented with additional software and hardware as applicable to create a data analytics platform in which the State of New Hampshire may leverage to create dynamic visualizations and reports of data to be used to address the Opioid crisis and be able to scale out to continue to integrate data sources into the environment from other HHS, State Agency's, providers, partners, and vendors as applicable. g) The successful bidder will need to propose the process and provide the necessary professional services to bring the data sources into the data warehouse and EBI to be used for the Opioid dashboard and data analytics platform, see question 5. F. for more information. h) The data warehouse is constantly evolving at the time of this response the data warehouse currently houses 25 data sources. i) See Answer 14 j) <= 250 Million records per single batch window k) Depending on the solution the bidder should propose the preferred methods of send/receive l) Flat files, Oracle, SQL Server, DB4

No.	Question	Answer
9.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.6.3, Sub-paragraph 1.2.6.3**: a) Will the Department serve as a System Integrator (SI) or will there be an SI vendor performing this role? b) Is the Department's expectation that that the selected DAP vendor will also be responsible for building an Enterprise Data Warehouse? c) Has the Department contracted with a vendor to build the new data warehouse? d) If so, who is the vendor?	a) The Department, in conjunction with the Department of Information Technology, will serve as the system integrator for this solution; however the professional services component of the contract will need to address the necessary resources to augment the State of New Hampshire's current staffing to successfully address system integration as well as data cleansing, creation of data warehouses, data marts, multi-dimensional database views, and associated training of existing state of New Hampshire staff to sustain and scale the solution. b) The DAP vendor will assist in continued architectural design of the data warehouse and analytics platform. c) Currently the department has an existing contract to build out the enterprise business intelligence platform including the new data warehouse. d) The current vendor supporting this effort is Deloitte.
10.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.6.3, Sub-paragraph 1.2.6.5:** Are vendors required to secure data within a Low or Moderate Environment, as defined in FIPS Publication 199 Standards for Security Categorization of Federal Information and Information Systems?	Using Federal Information Processing Standards (FIPS) Publication 199 standards the Security Categorization (SC) for this data is Confidentiality–High, Integrity–High, and Availability–Moderate. Vendors will be required to secure the data based on this SC.
11.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.8**: Can the Department provide a list of vendors who attended the bidders'	See Attachment #1

No.	Question	Answer
	conference?	
12.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.9, Sub-paragraph 1.2.9.3:** Is it the Department's intent that the selected vendor facilitate a process to develop the Department's data sharing and data management approach, with respect to interagency legal contracting, data sharing and Data Usage Agreements, in addition to implementing a data governance structure?	It is the Department's intent to have the selected vendor facilitate, document, design and implement a data governance and management solution. This will include overall management of the availability, usability, integrity and security of data used in an enterprise and associated organization structure, procedures and plan to execute. DHHS has existing data sharing agreements and legal resources to support these agreements. The vendor would incorporate these agreements into the overall data governance solution.
13.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.9, Sub-paragraph 1.2.9.4:** Is it acceptable to have web-based and/or virtual training in combination with in-person training?	Yes
14.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.9, Sub-paragraph 1.2.9.6:** a) How frequently are the current data sources gathered? b) What would be the standards for "real time" information gathering?	a) The frequency of data updates depends on data source and type. Currently: vital records data (birth and death), it is updated daily to the existing data warehouse by the NH Vital Records Registry; AHEDD (Automated Hospital Emergency Department Data System), it is uploaded multiple times per day for syndrome classification, analysis, and reporting from all twenty-six (26) New Hampshire acute care hospital emergency departments; Medicaid and Commercial claims data updates are currently monthly; Drug and Alcohol system data updates are planned to be monthly; Child Welfare data updates are weekly; Population data estimates are updated

No.	Question	Answer
		annually. b) The expectations will be that the data is refreshed daily unless the information being obtained for the effort is not available daily, in this case the expectation is data will be loaded into the EBI/data warehouse to be available to the data analytics platform within 24 hours of receipt. Through the project if it is identified that more frequent availability of a data system is valuable and feasible the vendor will be responsible for implementing the improvement in the EBI/data warehouse.
15.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.11, Sub-paragraph 1.2.11.1:** Will the available data on individuals only include Medicaid recipients?	The available data on individuals is not limited to Medicaid recipients, but covers all individuals recorded within each data set.
16.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.11, Sub-paragraph 1.2.11.7:** **a)** Please provide a list of data sources currently available for the initial solution? **b)** Are Naloxone Services a current or future source system? **c)** What specific data source(s) are included within the category of Criminal Justice?	a) The list of data sources are included in the graphic in Appendix D, Section 1.1.25 and specifically they are: 1. Medicaid and Commercial Member and Claims 2. Child Welfare Cases 3. Bureau of Drug and Alcohol Services and Naloxone Services 4. Vital Records (birth and death) & Medical Examiner 5. Live Hospital Emergency Department Surveillance (AHEDD) – Automated Hospital Emergency Department Data system 6. Emergency Medical Services (TEMSIS) Trauma Emergency Medical Services 7. Population Health Data currently located on https://wisdom.dhhs.nh.gov/wisdom/

No.	Question	Answer
		8. The list of data sources are included in the graphic in Appendix D, Section 1.1.25 and specifically they are: b) Naloxone Services is a future source system. Naloxone services are a current source of data. However the Department expects to have new naloxone service data through a different data source in the future, which would need to be integrated into the future phase of the project c) NCJRS: National Criminal Justice Reference Service. Those Criminal Justice data sources are in scope for phase 2 and have not been defined.
17.	**Section 1, Introduction, Sub-section 1.2 Project Overview, Paragraph 1.2.13 Non-Exclusive Contract**: Would the Department welcome partial bids?	No. The Department will not preclude bids from primary vendors who sub-contract with other vendors to meet the requirements of the RFP.
18.	**Section 1, Introduction, Sub-section 1.3 Contract Term, Paragraph 1.3.2:** What is the anticipated effective date for year one (1) of the contract resulting from this RFP?	The anticipated effective data will be upon NH Governor and Executive Council review and approval and all work associated with the deliverables outlined within the resulting contract must be completed and invoiced no later than August 31, 2019
19.	**Section 2, Schedule of Events**: a) When will invitations be sent for vendor presentations? b) Can the timeline be extended so vendors can make travel arrangements for the presentation? c) What is the closing date of the RFP?	a) The Department expects to send invitations for vendor presentations during the week of: December 17-21, 2018. b) See Addendum #6 c) See Addendum #6

No.	Question	Answer
20.	**Section 4, Instructions, Sub-section 4.1 Proposal Submission Deadline and Location Instructions, Paragraph 4.1.6, Sub-paragraph 4.1.6.3**: Would it be possible to receive the original editable MS Word format of the RFP documents "2019-043-rfp-2019-dphs-19-dataa", and "2019-043-rfp-2019-dphs-19-dataa-ad4"? We attempted to convert the PDF to the editable Word format but the integrity and formatting of the documents did not transfer over well (i.e. there were a significant amount of sections of the RFP that were incorrectly misaligned).	No. The C-2 Attachment .xls will be published to the Department RFP website.
21.	**Section 4, Instructions, Sub-section 4.1 Proposal Submission Deadline and Location Instructions, Paragraph 4.1.6, Sub-paragraph 4.1.6.3 AND Section 4, Instructions, Sub-section 4.16 Proposal Format, Paragraph 4.16.1.3**: Does the Department require both a USB and CD of the proposal?	The Department prefers one (1) electronic copy of the response to the RFP on a USB Flash Drive. See Addendum #6
22.	**Section 4, Instructions, Sub-section 4.16 Proposal Format, Paragraph 4.16.1.4:** a) May vendors use smaller fonts than 11-point for headers, footers and tables? b) May vendors use a font type other than	a) Yes, for headers and footers. No on tables b) Yes

No.	Question	Answer
	Times New Roman?	
23.	**Section 4, Instructions, Sub-section 4.16 Proposal Format, Paragraph 4.16.1.5:** a) May vendors number the pages by major section (Section I-1, Section II-1)? b) May vendors exclude the total number of pages in their numbering format? c) May vendors exclude forms, attachments, tabs and tables of contents from numbering?	a) Yes b) No c) Yes
24.	**Section 4, Instructions, Sub-section 4.18, Proposal Content, Paragraph 4.18.2**: a) Is there any room for negotiation on any of the terms and conditions? b) If yes, does the Department require vendors to call out any objections or exceptions to the RFP terms and conditions, including to Appendix H: *State of New Hampshire Terms and Conditions* as part of the proposal submission package? c) Please clarify that the note in Section 4.18.12 means that all appendices that may be responsive to Appendix D should be included in the original version of the proposal, but not the copies.	a) Yes b) Yes, See Attachment #2 c) The Note applies to Section 4, Instructions, Sub-section 18 Proposal Content, Paragraph 4.18.11

No.	Question	Answer
25.	**Section 5, Proposal Evaluation Process, Sub-section 5.4, Initial Screening, Paragraph 5.4.2, Oral Interviews and Product Demonstrations:** Will the Department invite all vendors to participate in oral interviews and product demonstrations?	No.
26.	**Section 5, Proposal Evaluation Process, Sub-section 5.5 Scoring Detail, Paragraph 5.5.1 Scoring of the Proposed Software Solution, Sub-paragraph 5.5.1.2**: It seems this portion of the text is truncated, please provide clarification. The RFP reads "Factors include but are not limited to: "	See Addendum #6
27.	**Section 5, Proposal Evaluation Process, Sub-section 5.5 Scoring Detail, Paragraph 5.5.1 Scoring of the Proposed Software Solution, Sub-paragraph 5.5.1.3.8:** What is the current Department standard for browsers?	Current standard for browsers is Internet Explorer 11, Edge, Firefox and Chrome
28.	**Section 5, Proposal Evaluation Process, Sub-section 5.5 Scoring Detail, Paragraph 5.5.1 Scoring of the**	Statistics and assumptions will evolve through discovery and implementations of solutions.

No.	Question	Answer
	Proposed Software Solution, Sub-paragraph 5.5.1.4.1: Does the Department intend to provide statistics and assumptions?	
29.	**Section 5, Proposal Evaluation Process, Sub-section 5.5 Scoring Detail, Paragraph 5.5.2, Scoring of Vendor Technical, Service and Project Management Proposal, Sub-paragraph 5.5.2.4:** What technologies, specifically, does the Department have in place?	See Answer #3
30.	**Appendix A, Background Information, Section 1, A-1 Health and Human Services, Sub-section 1.1, Paragraph 1.1.25:** a) Will interagency data usage agreements be final as of project kickoff? b) Is the ingestion of data to the target environment a deliverable of this scope of work? c) When will data be available for use by the project?	a) All of the data sources in phase one will have data usage agreements in place as of the project start date or shortly thereafter. Most of the data sets are Department data sets. See question 14 b) Yes c) On or within 15 days of project start date based on the State's receipt of names of the users that will have access and associated paperwork is completed.
31.	**Appendix A, Background Information, Section 1, A-1 Health and Human Services, Sub-section 1.1, Paragraph 1.1.26 AND Appendix A, Background**	a) Department of Health and Human Services b) See Answer # 30A c) No

No.	Question	Answer
	Information, Section 1, A-1 Health and Human Services, Sub-section 1.1, Paragraph 1.1.27: a) What governing body will oversee the work on the data? b) Will approvals on data be obtained from governing bodies prior to the project start date? c) Is AHEDD the only system for which data is available?	
32.	**Appendix A, Background Information, Section 2, A-2 Department of Information Technology and Technology Status, Sub-section 2.2, A-2.2 Future Systems Environment:** a) Does the Department require Design Thinking Workshops or User Journeys to define the user experience? b) What type of search functionality does the Department require?	a) Yes b) Search should be incorporated throughout the entire solution and allow for a global, site, or item specific functionality
33.	**Appendix B, Minimum Standards for Proposal Consideration, Section 3, B-3 Current Use of Vendor Proposed Software – Current Implemented Sites of Vendor proposed Software of Solution <NOTE: IF APPLICABLE>**: a) Will a fully implemented and operational pilot installation of the vendor's	a) No, the Department's intent is to have examples of working and fully operational systems. b) Yes.

No.	Question	Answer
	Software or Solution suite in government entities that are comparable in size and complexity to the State of New Hampshire meet the requirements of this section? b) Is this requirement mandatory?	
34.	**Appendix B, Minimum Standards for Proposal Consideration, Section 4, B-4 Vendor Implementation Service Experience The**: Is this requirement mandatory?	Yes. This requirement may be met through the provision of three (3) fully implemented and operational solutions that are similar in size and complexity that may not be government solutions, but relate to public or private health or human service programs.
35.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution AND Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Section 2, D-2 Technical, Services and Project Management Experience, Sub-section 2.1, D-2.1 Security and Protection of Data, Paragraph 2.1.6, Topic 11 – Project Management Methodology:**	See Addendum #6

No.	Question	Answer
	Is the page limit for responses to the Project Management Methodology section five (5) pages or ten (10) pages?	
36.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.1, Topic 1 – Description of Solution**: a) Should narrative responses be broken out according to each topic identified in the RFP? b) Do vendors need to repeat text that is in this section? c) If a vendor repeats text, is the repeated text included in the ten (10) page limit?	a) Narrative responses may be broken out to each topic or may be proposed as a single response as long as responses address the requirements defined within the RFP. b) No. c) Yes, if the vendor chooses to repeat text it will count against the 10 page limit.
37.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.1, Topic 1 – Description of Solution, Paragraph 1.1.19:** Please provide a summary of the role of an inspector.	See Addendum #6
38.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.1, Topic 1 – Description of Solution, Paragraph 1.1.20**: Can you include software release and	See Answer 2B

No.	Question	Answer
	versions for receiving systems?	
39.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.1, Topic 1 – Description of Solution, Paragraph 1.1.25**: a) Can the Department provide an enlarged graphic to vendors? b) What is the anticipated time period for Phase 2, long term enhancements by the Department?	a) See Attachment #3 b) Phase 2 is anticipated to take 6-24 months depending upon data sharing agreement timelines.
40.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.1, Topic 1 – Description of Solution, Paragraph 1.1.25**: Please define “CORbi” and provide additional context; please differentiate “CORbi” and “DAP”	Comprehensive Opioid Response Business Intelligence (CORbi) is the project name that will deliver an Opioid Response dashboard system to help integrate data for use by program areas, providers, and the citizens to assist in the response to the Opioid crisis. Data Analytics Platform (DAP) is the platform that CORbi will reside on and will be delivered as part of the RFP response leveraging the existing EBI (Enterprise Business Intelligence) platform and addressing a streamlined approach for the integration of disparate data sources.
41.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.3, Topic 3 – Data Governance and Management, Paragraph 1.3.3:** What processes does the Department	This should be proposed by the bidder

No.	Question	Answer
	intend to use for the planning, development and operation of application systems?	
42.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.3, Topic 3 – Data Governance and Management, Paragraph 1.3.9:** What tools and technologies does the Department use to enable data governance and management?	This should be proposed by the bidder
43.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.4, Topic 4 – User Friendliness and Usability, Paragraph 1.4.5:** How does the Department define function-driven capability?	A function driven capability is based on a capability that can be related to specific functionality like exporting to excel, CSV, XML, PDF or utilizing responsive and adaptive web design to seamlessly transition users between a full screen computer view to a smart phone view of the data with associated user friendly menus and design features. Other capability like browser compliance, bowser compatibility and 508 compliance will also be considered.
44.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-section 1.5, Topic 5 – IT Standards, Paragraph 1.5.1:** Does the Department anticipate the use of mobile devices as a component of the Data Analytics Platform?	Yes. The department anticipates the use of tablets, laptops, desktops and smart phones to access the site. The system should include adaptive and responsive design elements.
45.	**Appendix D, Topics for Mandatory Narrative Responses, Section 1, D-1 Proposed Software Solution, Sub-**	No.

No.	Question	Answer
	section 1.6, Topic 6 – Data Import/Export Standards and Migration, Paragraph 1.6.11: Will the Department consider removing this requirement?	
46.	**Appendix D, Topics for Mandatory Narrative Responses, Section 2, D-2 Technical, Services and Project Management Experience, Sub-section 2.1, D-2.1 Security and Protection of Data**: Are there State standards which must be met? (If so, please provide those standards)	See Sample Contract, Exhibit K, DHHS Information Security Requirements section of the RFP.
47.	**Appendix D, Topics for Mandatory Narrative Responses, Section 2, D-2 Technical, Services and Project Management Experience, Sub-section 2.2, D-2.2 State Personnel and Training, Paragraph 2.2.1, Topic 12 – User Training Approach:** How many users, by type, does the Department anticipate?	**Developers** **<= 25** Concurrent Developers <= 15 Number of public facing report users (Tableau) <= 25,000 Number of public facing concurrent users (Tableau) <= 500 Number of internal users for Tableau (explorers & viewers) <= 250

No.	Question	Answer
		Number of concurrent internal users for Tableau (explorers & viewers) <= 30
48.	**Appendix E, Standards for Describing Vendor Qualifications, Section 2, E-2 Team Organization and Designation of key Vendor staff:** Is this list exhaustive and required?	Vendors should submit a list of key vendor staff appropriate to the solution proposed.
49.	**Appendix G-1, Security, Section 1. Appendix G-1 Security, Sub-section 1.2, G-1.2 PCI DSS Payment Application Data Security Standard (PA DSS):** a) If vendors are not storing credit card data, is this section mandatory? b) Is there a State payment gateway that is preferred? (If so, what is it?)	a) No. b) PCI-DSS is not applicable to this RFP and thus payment gateway information is not necessary.
50.	**Appendix G-2 Testing Requirement**: a) What types of data will be converted/migrated? b) How many years' worth of each data type will be converted/migrated?	a) Oracle, Microsoft SQL, CSV exports, MS Access, XML exports, and report based information will be migrated. b) The number of years of data will be different for each data source. The goal will be to migrate each data source in its entirety.
51.	**Appendix H-25, General Contract Requirements APPENDIX H-25, Section 25.9, H-25.8 Licenses, Subsection 25.9.1, H-25.8.1 Software License Grant**:	Any restrictions, terms or conditions on licenses to software proposed will need to be clearly defined. If the license is in conflict with the statement, the terms and conditions associated with the license will still be considered.

No.	Question	Answer
	Please confirm the State does not require "a worldwide, perpetual, irrevocable…" license to the Software for any COTS or SaaS-based solution that may be bid.	
52.	**Appendix H-25, General Contract Requirements, Section 25.13, H-25.12 Administrative Specifications, Sub-section 25.13.7, H-25.12.7 Intellectual Property**: Please confirm the State does not require ownership and intellectual property rights to the Software for any COTS or SaaS-based solution that may be bid.	Ownership of intellectual property rights to software associated with COTS or SaaS based solutions is not required by the State. Any software, data, or SaaS based solution developed utilizing State funding will be considered State property.
53.	**Appendix H-25, General Contract Requirements, Section 25.22, H-25.21 Escrow of Code**: a) Is escrow required if vendors present a COTS solution? b) What will duration will the Warranty Period be? c) Will the 10% withholding be released at the end of the Warranty Period?	a) No b) See Section 25.11, H-25.10 Warranty, Sub-section 25.11.1 H-25.10.1 Warranty Period c) Yes the 10% withholding will be released at the end of the warranty period.
54.	**Sample Contract, Exhibit K, DHHS Information Security Requirements, Section IV, Procedures for Security**: a) Does the Department allow implementation and ongoing technical	a) Yes, however the data and services are still governed by the terms and conditions indicated in Sample Contract, Exhibit K, DHHS Information Security Requirements section of the RFP. b) FedRAMP/HITECH is a requirement if hosted outside of the State of New Hampshire Data Centers as the data will have

No.	Question	Answer
	support to include both onshore and offshore resources if absolutely no PHI will be accessed or exposed to any offshore resources? b) Is Fed/RAMP/HITECH a requirement?	PHI, PII and other federally and state regulated information.
55.	**Addendum #4, Attachment C-2 Requirements, Table C-2**: Would the State provide this attachment in Excel format so it can be completed for submission?	Yes, upon request.
56.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Part 1, Business Requirements**: a) Can the cells to the Excel Sheet be provided in an unlocked form to ensure cells can be expanded to read the text? b) Will the Department be completing the Criticality column for this section?	a) Attachment C-2, Requirements, Table C-2, Part 1, Business Requirements will be made available on the Department's RFP Website. b) Yes
57.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Number B1.4**: Is the State expecting the vendor to provide professional services and utilize State's technology components listed out in B2.5 and State's existing infrastructure for hosting?	The bidder is expected to provide a solution that will leverage/utilize the States technology components as explained in B2.5 of Attachment C-2, Requirements, Table C-2, Part 1, Business Requirements and if necessary the vendor may leverage a hosted solution proposed and provided by the vendor to accomplish the deliverables.

No.	Question	Answer
58.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Number B2.5**: Will the State be procuring licenses for alternate solutions suggested by the vendor directly? Would the cost of those licenses be part of this RFP? Can the vendor recommend a strategy of tools that will extend beyond the first stage of the contract?	The vendor must be able to procure the licenses for the proposed solution on behalf of the State and the costs of those licenses and initial maintenance period of at least 1 year are part of the RFP. The vendor may recommend a strategy of tools that will extend beyond the first stage of the contract and the costs of any tool or solution that will not be completed by August 31, 2019 should be clearly described in the response.
59.	**Addendum 4, Attachment C-2, Req. # B1.5, H3.11**: Does the State have a cloud environment? If yes, is the question about expanding the capacity to meet the needs of this RFP? If it is about expanding State's cloud capacity, would the cost of expansion be part of this RFP?	No the State does not have a cloud environment. If a cloud solution is proposed the costs would be included in this RFP.
60.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Numbers B1.5 AND H3.11**: Can the vendor host the solution on a FedRAMP moderate compliant cloud environment?	No, the solution must be in a FedRAMP High Baseline (High Impact Level) cloud environment.
61.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement**	No.

No.	Question	Answer
	Number B2.5: Is the intention of the State to deploy the existing software i.e. (Oracle, Informatica, etc.) to the vendor solution hosted environment?	
62.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Number B1.6**: Is there a base environment we are using to create DAP for Opioids?	Yes, the base environment will be implemented by December 31, 2018 and it is expected that this solution will layer into the environment.
63.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Number B1.4**: Can the vendor use a multi-skilled and need-based resourcing model to efficiently and economically support the delivery of the program?	Vendors must propose their solution and explain how the solution meets the requirements.
64.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Number B2.1**: Is the State expecting statistical models and predictive algorithms as part of this RFP?	Yes.
65.	**Addendum #4, Attachment C-2,**	The vendor should provide solutions to address lag time by

No.	Question	Answer
	Requirements, Table C-2, Requirement Number B2.3: Can the State provide more clarification on this?	leveraging technologies and skills to streamline the access to the data. If the bidder is unable to meet the requirement then an explanation of what they are able to provide should be proposed.
66.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Number B4.17**: Does the State have an existing Metadata solution to support this requirement?	The state is currently implementing Informatica PowerCenter AE which includes a Metadata Manager and Business Glossary (WISDOM currently has 5 report/system developers and 6 data scientist/analysts. Public health anticipates having 100-150 normal users, including 30 power users.)
67.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Number B4.1**: How many users does the State anticipate per role type (e.g Data Scientist, Super User, Normal User)?	The platform should accommodate: • Data Scientists 15-25 • Super Users 30-50 • Normal Users 200-400
68.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Requirement Number A2.15:** What is the text of this requirement?	See Addendum #6

No.	Question	Answer
69.	**Addendum #4, Attachment C-2, Requirements, Table C-2, Training Requirements:** a) How many regional locations, where face-to-face training is needed, will be required? b) How many attendees will each regional location be required to accommodate?	a) All training will be held in Concord, NH b) We will need to have several training sessions, based on levels and roles, in which 20-30 people will attend.
70.	**General**: Does the State expect the vendor to provide, as part of its proposed solution, vendor staff who will use the Data Analytics Platform for Opioid Crisis along with, or instead of, State staff?	The expectation that the vendor will work along with existing State staff in all areas to ensure knowledge transfer.
71.	**General**: Is NH DHHS specifically looking for vendors having the past performance and expertise to customize the current technology stack implementation meeting the needs outlined in the RFP? For example customization of Tableau user interfaces and Informatica workflows.	The Department is looking for both the capacity for customization of Tableau user interfaces and Informatica workflows but also the ability to streamline data cleansing, predictive algorithms, integration techniques as well as all the other requirements listed in the RFP
72.	**General**: Is an offshore/onshore execution model acceptable to the Department?	As long as no data is stored offshore and all production and test solutions utilizing any department data is all onshore to include following all items in Exhibit K unless officially agreed to otherwise in final contract negotiations after notification of intent to award.

No.	Question	Answer
73.	**General**: Does the State have a preference for software solutions that are off-the-shelf, or integration of analytics & BI tooling?	No.
74.	**General**: Did the State work with an external advisor to prepare the RFP?	No
75.	**General**: What is the structure of the data and where is it being stored today?	DHHS currently uses an Oracle environment for data warehousing. DHHS's new EBI platform is also Oracle based. Additional file interfaces are typically flat text files. Most of the data is stored in the Oracle database. For the datasets that are not in the state data warehouse, the structure depends on the data sources. Some data sets/sources will need to have a clear data dictionary developed.
76.	**General**: How much data cleansing will be required?	Minimal data cleansing will be required. Typically the data hosted by the State is clean and ready to use for the initial data sources. Future data sources may need extensive cleansing. Focus of cleansing will be around linking of data sets and harmonization of codes and reference tables
77.	**General**: Can we receive some sample data which will remain in place and be integrated to the new BI solution?	No. Information Security will not authorize the release of real data prior to an executed contract. Sample data requirements will need to be addressed in the contract scope.

No.	Question	Answer
78.	**General**: a) Does the State require three (3) total references or nine (9) total references? b) For vendors submitting joint proposals, how many references are required?	a) 3 total references b) 3 total references
79.	**General**: a) Can the Department specify the number of users for each technology currently in use? b) How many Department users, in what roles will be required? c) What is the estimate of the total number of end users that will require personalized dashboards	a) For Cognos BI Tool, 3 administrators, 4 developers, 5-10 UAT users. DPHS has a vendor work on report development. Currently DHHS is scaling out to 18 Tableau Creator users. Currently the DHHS EDW has 400 users b) Yes, the Opioid Crisis Dashboard deliverable of this RFP will reside in the Data Analytics Platform and will be used by approximately 250 or less internal users, and external users will be based on the answer in question 52 c) Estimate of total number of end users requiring personalized dashboards would be around 250 for this phase.
80.	**General**: When is the expected go live date?	Go live date should be on August 1, 2019 to allow for final acceptance prior to August 31, 2019.
81.	**General**: Can you run data processing and quality analytics internally using Informatics?	DHHS's current implementation of its EBI platform includes licensing for Informatica Data Quality SE. Yes, the selected vendor is expected to provide solutions or recommendations on data quality and analysis process. Informatica will perform ETL processes mostly. Data analysis will be performed using R Programming (in an R server if necessary) and connect to Tableau. Tableau will also handle simple data analysis for the visualization.
82.	**General**:	Yes

No.	Question	Answer
	Can vendors propose to build upon Informatics?	
83.	**General**: a) Does NH have a Tableau enterprise today? b) Is Tableau deployed on-prem or online? c) Describe the current and/or anticipated role of Tableau within the Department.	a) Yes b) On premise c) Tableau will be the tool used by HHS for visualizations, dashboards, analytics, data explorer and integration, reporting, and statistics
84.	**General**: Does the Department use grouper software?	Vendors may propose grouper software as part of its solution. The Department has limited access to groupers.
85.	**General**: Has the State received any demos prior to this RFP being released?	No.
86.	**General**: Is there a State data policy published somewhere?	The State has RSA to regulate data collection and release. Each dataset has its own administrative rules to define the details of data policy.
87.	**General**: Are vendors allowed to provide a redacted copy of the proposal in order to exempt company financials and trade secret information from public disclosure?	See Section 4, Instructions, Sub-section 4.10 Public Disclosure
88.	**General**: Is the Department open to leveraging	Yes

No.	Question	Answer
	existing assets that are being used to process transactions at the State today?	
89.	**General**: Is the vendor required to register in New Hampshire before proposal submission?	Vendors will be required to be a registered company in New Hampshire in order to enter into a contract agreement.
90.	**General**: a) Does the Department have a preference between a Hosted or On-Premise solution? b) Which deployment model does the Department prefer or require? c) Does the Department require the vendor to host and operate and run on-going maintenance of the solution? d) Are there requirements on how the application is managed? e) How many environments and what types of environments are required? For example Development, Test, Staging, Disaster Recovery, Production, etc.? f) Are there specific security provisions/requirements that the product (including Hosting operations) need to comply with?	a) No b) Bidder should propose their recommendation c) The purpose of the training component of the RFP is to ensure that the State of New Hampshire is able to support and maintain the environment. d) The application should be available 24/7/365 with scheduled outages for maintenance following a change management process e) Four - Development, Test, Disaster Recovery and Production f) See Sample Contract, Exhibit K, DHHS Information Security Requirements section of the RFP
91.	**General**: a) Will vendors be expected to manage all of the account management activities?	a) Account Management training is the vendor's responsibility; account management is the responsibility of the State b) The vendor should propose the solution and provide training

No.	Question	Answer
	b) Will the Department utilize the requested administration utilities to manage this process?	for any utilities to manage the process to the State so that the State employees may manage the administration functions.
92.	**General:** Are SaaS subscription licenses acceptable?	Vendors proposing SaaS subscription licenses must include how the subscription license and overall solution integrates with the current environment.
93.	**General:** Does the Department require four (4) or five (5) environments?	Four (4)
94.	**General:** What should be considered for user access protocols for the system? (User/password, Active Directory/LDAP, Single Sign-on)	Internal should be Active Directory/LDAP or if other should be explained. External should have an option for open access as default to the environment based on Department workflow for publishing. Additionally an option for web based authentication should be proposed for allowing data sharing and access to create or modify dashboards for publishing based upon business rules.
95.	**General:** Please set realistic expectations around the completion date of 12/31/18.	Completion date of the implementation is August 31, 2019 and thus RFP deadlines are set to allow for the most time to be spent on task. The new schedule for demonstrations and award notification are updated in question 19.

New Hampshire Department of Health and Human Services
Data Analytics Platform for Opioid Crisis

Attachment #1

This attachment is published to provide a list of vendors who attended the October 30, 2018 Vendor Conference for RFP-2019-043/RFP-2019-DPHS-19-DATAA.

- This list may not be comprehensive.
- This list was created based on organization names as they appeared on the vendor sign-in sheet on October 30, 2018

1. HealthEC
2. Deltek
3. IMAT Solutions
4. Dimensional Insight
5. IBM Watson Health
6. WRMA Inc.
7. Google
8. PCCTG
9. PCG Health
10. Conduent
11. FTI Consulting
12. American Institutes for Research
13. Cognizant
14. PulseLight
15. Optum
16. The Lewin Group
17. Orion Health
18. Accenture
19. LexisNexis Risk Solution
20. Qlarion
21. SAS Institute
22. Amick Brown
23. Cubic
24. Mythics Inc.
25. Deloitte
26. Information Builders
27. Edifecs Inc
28. SHI
29. Health Tech Solutions
30. Informatic
31. Milliman
32. CGI
33. Qualidigm

34. Mastech Infotrellis
35. SAP
36. UNICOM Government
37. Netsmart
38. Infor
39. FEI Systems
40. FYI Consulting
41. IRI
42. RTI

APPENDIX A

EXCEPTIONS TO TERMS AND CONDITIONS

A Responder shall be presumed to be in agreement with the terms and conditions of the RFP unless the Responder takes specific exception to one or more of the conditions on this form.

RESPONDERS ARE CAUTIONED THAT BY TAKING ANY EXCEPTION THEY MAY BE MATERIALLY DEVIATING FROM THE RFP SPECIFICATIONS. IF A RESPONDER MATERIALLY DEVIATES FROM A RFP SPECIFICATION, ITS PROPOSAL MAY BE REJECTED.

A material deviation is an exception to a specification which 1) affords the Responder taking the exception a competitive advantage over other Responders, or 2) gives the State something significantly different than the State requested.

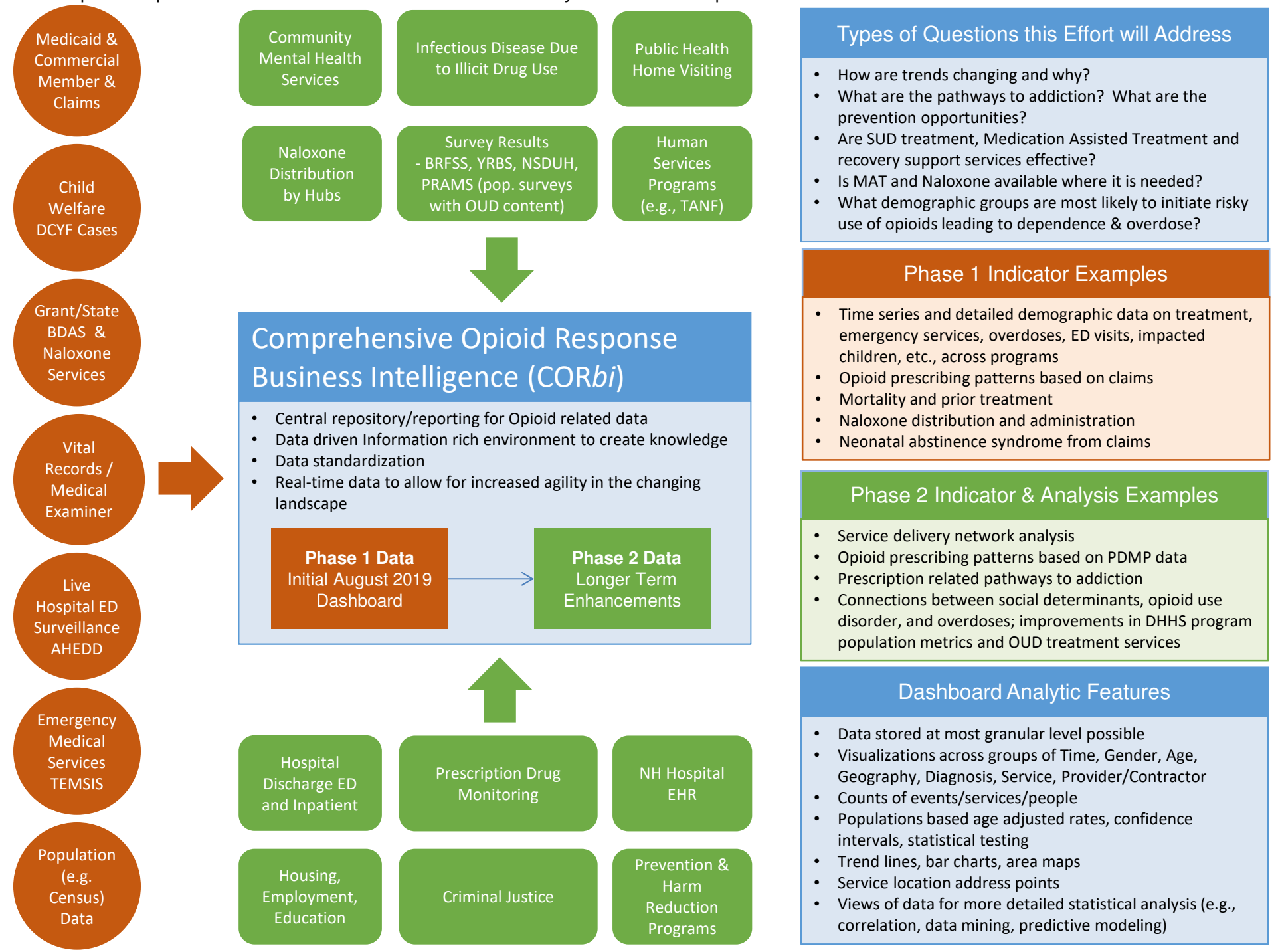
INSTRUCTIONS: Responders must explicitly list all exceptions to State of NH minimum terms and conditions. Reference the actual number of the State's term and condition and Exhibit number for which an exception(s) is being taken. If no exceptions exist, state "NONE" specifically on the form below. Whether or not exceptions are taken, the Responder must sign and date this form and submit it as part of their Proposal. (*Add additional pages if necessary*.)

Responder Name:	
Term & Condition Number/Provision	**Explanation of Exception**

By signing this form, I acknowledge that the above named Responder accepts, without qualification, all terms and conditions stated in this RFP Section 8- Mandatory Business Specifications, Contract Terms and Conditions except those clearly outlined as exceptions above.

_____ _____ _____

Signature Title Date


Medicaid & Commercial Member & Claims
Child Welfare DCYF Cases
Grant/State BDAS & Naloxone Services
Vital Records / Medical Examiner
Live Hospital ED Surveillance AHEDD
Emergency Medical Services TEMSIS
Population (e.g. Census) Data
Community Mental Health Services
Infectious Disease Due to Illicit Drug Use
Public Health Home Visiting
Naloxone Distribution by Hubs
Survey Results - BRFSS, YRBS, NSDUH, PRAMS (pop. surveys with OUD content)
Human Services Programs (e.g., TANF)
Comprehensive Opioid Response Business Intelligence (CORbi)
Central repository/reporting for Opioid related data
Data driven Information rich environment to create knowledge
Data standardization
Real-time data to allow for increased agility in the changing landscape
Phase 1 Data
Initial August 2019 Dashboard
Phase 2 Data
Longer Term Enhancements
Hospital Discharge ED and Inpatient
Prescription Drug Monitoring
NH Hospital EHR
Housing, Employment, Education
Criminal Justice
Prevention & Harm Reduction Programs
Types of Questions this Effort will Address
How are trends changing and why?
What are the pathways to addiction? What are the prevention opportunities?
Are SUD treatment, Medication Assisted Treatment and recovery support services effective?
Is MAT and Naloxone available where it is needed?
What demographic groups are most likely to initiate risky use of opioids leading to dependence & overdose?
Phase 1 Indicator Examples
Time series and detailed demographic data on treatment, emergency services, overdoses, ED visits, impacted children, etc., across programs
Opioid prescribing patterns based on claims
Mortality and prior treatment
Naloxone distribution and administration
Neonatal abstinence syndrome from claims
Phase 2 Indicator & Analysis Examples
Service delivery network analysis
Opioid prescribing patterns based on PDMP data
Prescription related pathways to addiction
Connections between social determinants, opioid use disorder, and overdoses; improvements in DHHS program population metrics and OUD treatment services
Dashboard Analytic Features
Data stored at most granular level possible
Visualizations across groups of Time, Gender, Age, Geography, Diagnosis, Service, Provider/Contractor
Counts of events/services/people
Populations based age adjusted rates, confidence intervals, statistical testing
Trend lines, bar charts, area maps
Service location address points
Views of data for more detailed statistical analysis (e.g., correlation, data mining, predictive modeling)

Medicaid & Commercial Member & Claims	Pharmacy, physical, behavioral health care claims for all NH Medicaid services and for most commercially insured population in New Hampshire. Medicaid member data will be integrated into the EBI data warehouse under a separate effort by Spring 2019. Commercial insurance data (which includes some Medicare Part D data will need to be migrated to the EBI data warehouse as part of the Opioid Dashboard project.
Child Welfare DCYF Cases	Child protection investigations and findings including whether opioid or other substance use is possible factor in the case. Data currently in DHHS data warehouse.
Grant/State BDAS & Naloxone Services	Treatment for substance use disorder through state funded facilities. An array of levels of care including outpatient, intensive outpatient, partial hospitalization, residential, withdrawal management, and peer and non-peer recovery support services. Data must be migrated by the vendor to the EBI data warehouse as part of the Opioid Dashboard project.
Vital Records / Medical Examiner	Drug overdose deaths data by Fentanyl (no other drugs), Fentanyl and Other Drugs (excluding heroin), Heroin (no other drugs), Heroin and Other Drugs (excluding fentanyl), Heroin and Fentanyl, Unknown Opioids, Other Opiates/Opioids determined by the Medical Examiner. Vital Records data based on ME findings is currently in DHHS data warehouse. Birth data will soon allow neonatal abstinence syndrome tracking.
Live Hospital ED Surveillance AHEDD	State-wide surveillance system collects real-time data from all 26 New Hampshire acute care hospital emergency departments to detect clusters or monitor potential health threats in the population such as respiratory illness during influenza season, injuries during snow storms, and drug overdoses during the current opioid crisis.
Emergency Medical Services TEMSIS	Emergency medical responses on Narcan administration incidents data. A data collection and analysis capability system that provides for the evaluation of the emergency medical and trauma services system (TEMSIS) . Data (subject to approvals) must be migrated by the vendor to the EBI data warehouse as part of the Opioid Dashboard project.
Population (e.g. Census) Data	Base data used for calculation of population based rates.

General Data Considerations

- All data will be stored at the smallest level of granularity as possible given availability, technical & legal considerations
- Over time granularity will increase where barriers are an issue to providing granular data
- Data is linked where possible (DHHS is currently standing up a master client index schema in its data warehouse)
- Data will be standardized where possible
- Phase 1 goal is analytically useful data, not individual person management data
- Data will have separate levels of granularity for Public or DHHS-only display/access
- Data that is already in the DHHS data warehouse will be used where at all possible, but new data will need to be added to the EDW.
- Non-record level data may be included in dashboards directly through non-EDW approaches
- Data will generally be grouped for display using multiple grouping schemes (e.g., geography grouped by county, service area, public health region)
- Where meaningful, data should support address level geocoding (e.g., to specifically indicate a provider location)